IN THE CLAIMS

1. (Currently amended) A non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend produced by the method comprising:

in a first step, forming a fire retardant mixture comprising a non-halogenated fire retardant, poly(arylone other) resin, and a polystyrene resin essentially free of plasticizer by intimately mixing in melt;

in a second step, forming a non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend by intimately mixing in melt the fire retardant mixture with a blowing agent wherein the expandable poly(arylene ether)/polystyrene blend is in the form of pellels; and

in a third step, expanding the non-halogenated, fire retardant, expandable poly(arylene ether)/polystyrene blend.

- 2. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1 wherein the blend produces a sound level less than or equal to about 60 decibels when the skin surface of a 2.5 cubic centimeter sample is rubbed across a clear coated test panel with a constant pressure of about 2-2.5 kilo Pascals.
- 3. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1 wherein the poly(arylene ether) has an intrinsic viscosity of about 0.1 to about 0.6 deciliters per gram as measured in chloroform at 25°C.
- 4. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1 wherein the poly(arylene ether) is present in an amount of about 5 to about 95 weight percent, based on the weight of the composition and the amount of polystyrene is about 5 to about 95 weight percent, based on the weight of the composition.

- 5. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1 wherein the polystyrene has a molecular weight less than or equal to about 240,000 atomic mass units.
- 6. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1 wherein the fire retardant mixture further comprises a nucleating agent.
- 7. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1, wherein the fire retardant mixture further comprises an impact modifier.
- 8. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1, wherein the non-halogenated fire retardant comprises butylated triphenyl phosphate ester, resorcinol tetraphenyl diphosphate, bis-phenol A tetraphenyl diphosphate, or a mixture of two or more of the foregoing.
- 9. (Original) The non-halogenated, fire retardant, expanded poly (arylene ether)/polystyrene blend of Claim 1, wherein the blowing agent comprises a pentane isomer or a mixture of pentane isomers.
- 10. (Currently amended) An expanded poly(arylene ether)/polystyrene blend produced by the method comprising:

in a first step, forming a first mixture comprising poly(arylene other) resin, and polystyrene resin essentially free of plasticizer by intimately mixing in melt;

in a second step forming an expandable poly(arylene ether)/polystyrene blend by intimately mixing in melt the first mixture with a blowing agent wherein the expandable poly(arylene ether)/polystyrene blend is in the form of pellets; and

in a third step, expanding the expandable poly(arylene ether)/polystyrene blend.

- 19. (Original) The expandable poly (arylene ether)/polystyrene blend of Claim 17 wherein the poly(arylene ether) is present in an amount of about 5 to about 95 weight percent, based on the weight of the composition and the amount of polystyrene is about 5 to about 95 weight percent, based on the weight of the composition.
- 20. (Original) The expandable poly (arylene other)/polystyrene blend of Claim 17 wherein the polystyrene has a molecular weight less than or equal to about 240,000 atomic mass units.
- 21. (Original) The expandable poly (arylene ether)/polystyrene blend of Claim 17, further comprising an impact modifier.
- 22. (Original) The expandable poly (arylene ether)/polystyrene blend of Claim 17, wherein the blowing agent comprises a pentane isomer or a mixture of pentane isomers.
- 23. (Currently amended) A non-halogenated, fire retardant, expandable poly(arylene ether)/polystyrene blend comprising poly(arylene ether) resin, polystyrene resin essentially free of plasticizer, a non-halogenated fire retardant, a nucleating agent and blowing agent wherein the expandable poly(arylene ether)/polystyrene blend is in the form of pellets.
- 24. (Original) The non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend of Claim 23 wherein the poly(arylene ether) has an intrinsic viscosity of about 0.1 to about 0.6 deciliters per gram as measured in chloroform at 25°C.
- 25. (Original) The non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend of Claim 23 wherein the poly(arylene ether) is present in an amount of about 5 to about 95 weight percent, based on the weight of the composition and the amount of polystyrene is about 5 to about 95 weight percent, based on the weight of the composition.
- 26. (Original) The non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend of Claim 23 wherein the polystyrene has a molecular weight less than or equal to about 240,000 atomic mass units.

- 33. (Original) The expandable poly (arriene other)/polystyrene blend of Claim 30 wherein the polystyrene has a molecular weight less than or equal to about 240,000 atomic mass units.
- 34. (Original) The expandable poly (arylene other)/polystyrene blend of Claim 30, further comprising an impact modifier.
- 35. (Original) The expandable poly (arylene other)/polystyrene blend of Claim 30, wherein the blowing agent comprises a pentane isomer or a mixture of pentane isomers.
- 36. (Original) The expandable poly (arylene other)/polystyrene blend of Claim 30 wherein the first mixture further comprises a nucleating agent.
- 37. (Currently amended) A non-halogenated, fire retardant expandable poly(arylene ether)/polystyrene blend produced by the method comprising:

in a first step, forming a first mixture comprising poly(arylene ether) resin, polystyrene resin essentially free of plasticizer, and a non-halogenated fire retardant by intimately mixing in melt; and

in a second step forming an expandable poly(arylene ether)/polystyrene blend by intimately mixing in melt the first mixture with a blowing agent wherein the expandable poly(arylene ether)/polystyrene blend is in the form of pellets.

- 38. (Original) The non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend of Claim 37 wherein the poly(arylene ether) has an intrinsic viscosity of about 0.1 to about 0.6 deciliters per gram as measured in chloroform at 25°C.
- 39. (Original) The non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend of Claim 37 wherein the poly(arylene ether) is present in an amount of about 5 to about 95 weight percent, based on the weight of the composition and the amount of polystyrene is about 5 to about 95 weight percent, based on the weight of the composition.

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- 47. (Original) The precursor composition of Claim 45 wherein the poly(arylene ether) is present in an amount of about 5 to about 95 weight percent, based on the weight of the composition and the amount of polystyrene is about 5 to about 95 weight percent, based on the weight of the composition.
- 48. (Original) The precursor composition of Claim 45 wherein the polystyrene has a molecular weight less than or equal to about 240,000 atomic mass units.
- 49. (Original) The precursor composition of Claim 45, further comprising an impact modifier.
- 50. (Original) The precursor composition of Claim 45, wherein the blowing agent comprises a pentane isomer or a mixture of pentane isomers.
- 51. (Original) The precursor composition of Claim 45 further comprising a non-lialogenated fire retardant.
- 52. (Currently amended) A non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend produced by the method comprising:

in a first step, melt mixing independent components comprising a non-halogenated fire retardant, poly(arylene ether) resin, and a polystyrene resin essentially free of plasticizers to form a fire retardant mixture;

in a second step, forming a non-halogenated, fire retardant, expandable poly (arylene ether)/polystyrene blend by intimately mixing in melt the fire retardant mixture with a blowing agent wherein the expandable poly(arylene ether)/polystyrene blend is in the form of pellets.

53. (Currently amended) An expandable poly(arylene ether)/polystyrene blend produced by the method comprising:

in a first step, melt mixing independent components comprising poly(arylene ether) resin and polystyrene resin essentially free of plasticizer by intimately mixing to form a first mixture; and

in a second step forming an expandable poly(arylene ether)/polystyrene blend by intimately mixing in melt the first mixture with a blowing agent wherein the expandable poly(arylene ether)/polystyrene blend is in the form of pellets.